

Abstract of the Disclosure

SYSTEM FOR DETERMINING AN
IMPLEMENT ARM POSITION

A control system for determining a position of an implement arm having a work implement is disclosed. The implement arm includes mating components connected by at least one joint. The control system includes at least one position sensor operably associated with the implement arm and configured to sense positional aspects of the implement arm. It also includes at least one load sensor operably associated with the implement arm, and configured to sense the direction of loads applied to the at least one joint. A controller is adapted to calculate a position of the implement arm based on signals received from the at least one position and load sensor. The calculated position takes into account shifting of the implement arm caused by clearances existing at the at least one joint between the mating components of the implement arm.